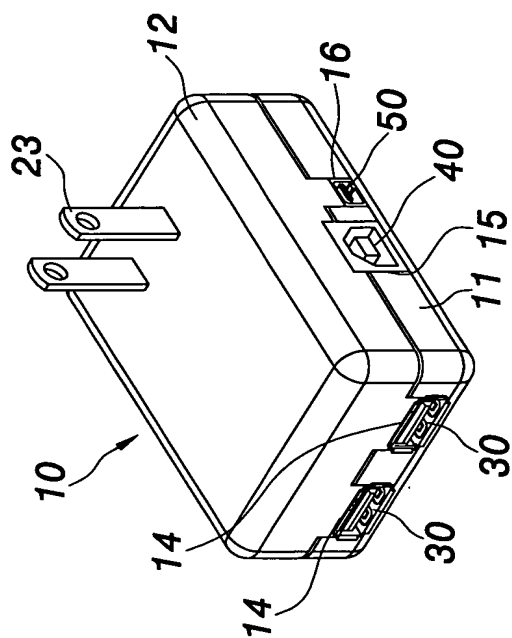


FIG. 1  
PRIOR ART

[illegible]

**FIG. 2**



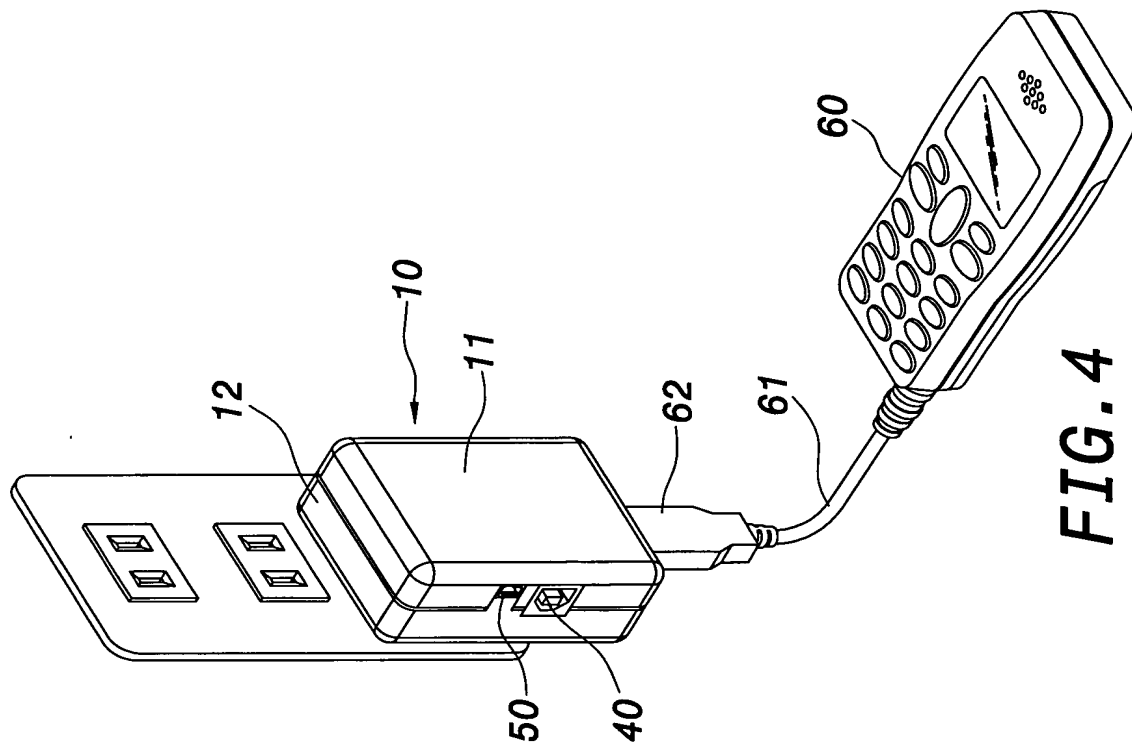


FIG. 4

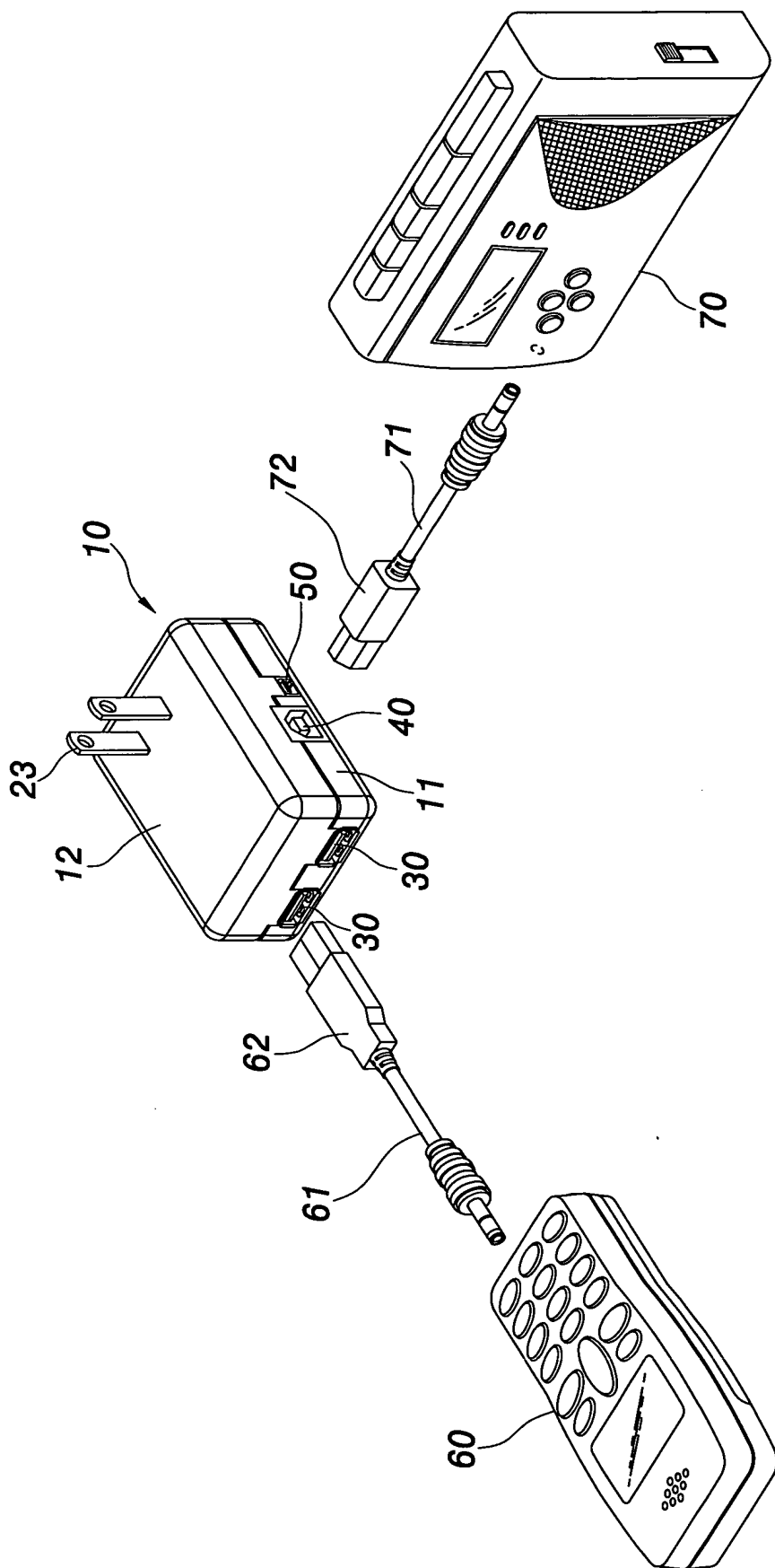


FIG. 5

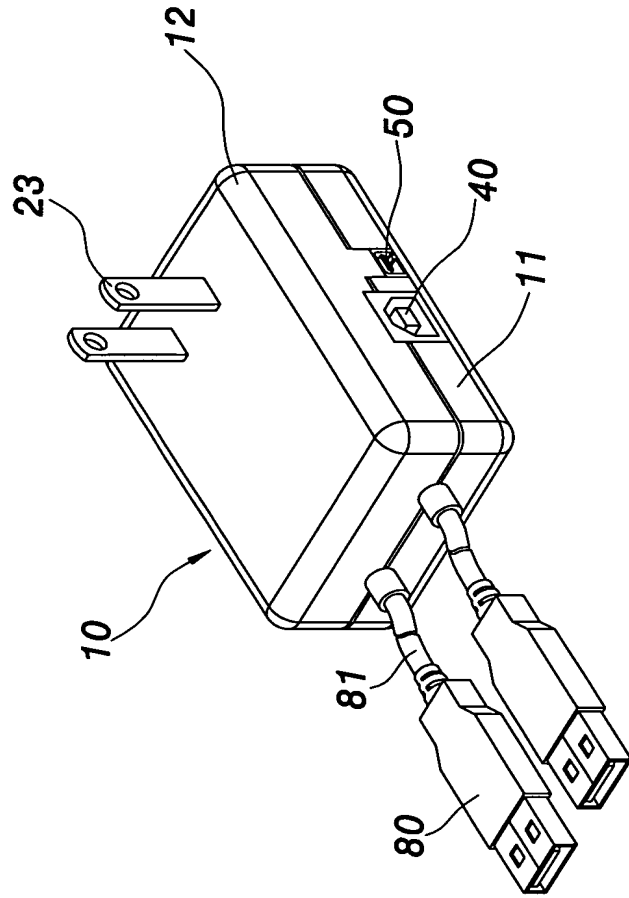
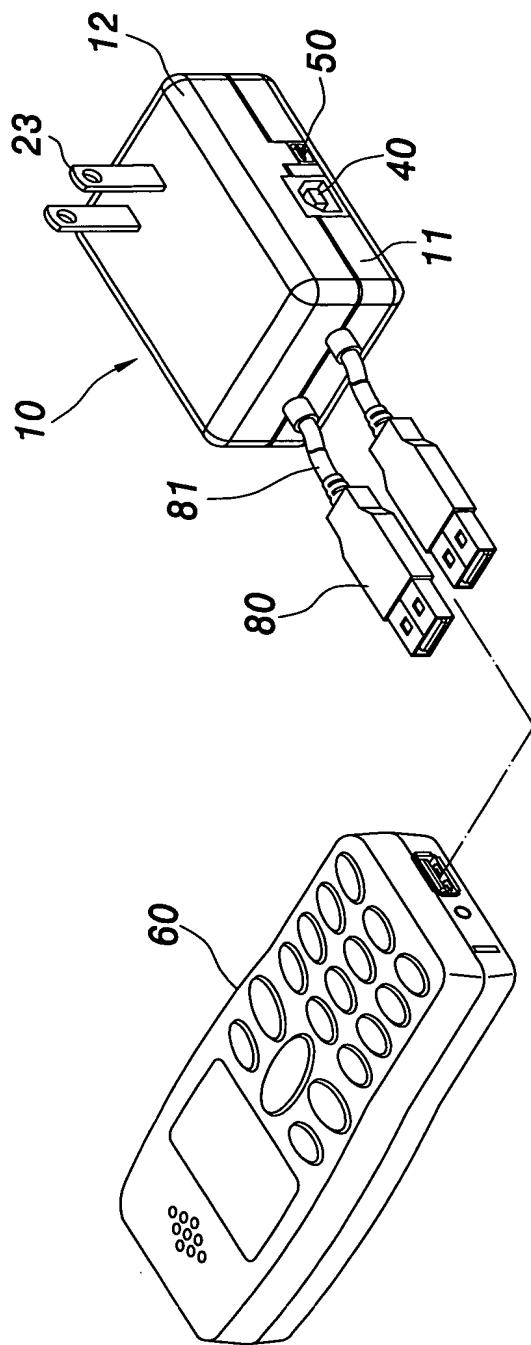


FIG. 6

Material	Length	Width	Thickness	Weight	Volume	Surface area	Mass density
Aluminum	100 mm	10 mm	1 mm	0.27 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	2.7 g/cm <sup>3</sup>
Steel	100 mm	10 mm	1 mm	0.78 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	7.8 g/cm <sup>3</sup>
Carbon fiber	100 mm	10 mm	1 mm	0.15 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.5 g/cm <sup>3</sup>
Kevlar	100 mm	10 mm	1 mm	0.12 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.2 g/cm <sup>3</sup>
Fiberglass	100 mm	10 mm	1 mm	0.18 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.8 g/cm <sup>3</sup>
Carbon fiber	100 mm	10 mm	1 mm	0.15 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.5 g/cm <sup>3</sup>
Kevlar	100 mm	10 mm	1 mm	0.12 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.2 g/cm <sup>3</sup>
Fiberglass	100 mm	10 mm	1 mm	0.18 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.8 g/cm <sup>3</sup>
Carbon fiber	100 mm	10 mm	1 mm	0.15 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.5 g/cm <sup>3</sup>
Kevlar	100 mm	10 mm	1 mm	0.12 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.2 g/cm <sup>3</sup>
Fiberglass	100 mm	10 mm	1 mm	0.18 g	10 mm <sup>3</sup>	200 mm <sup>2</sup>	1.8 g/cm <sup>3</sup>



**FIG. 7**

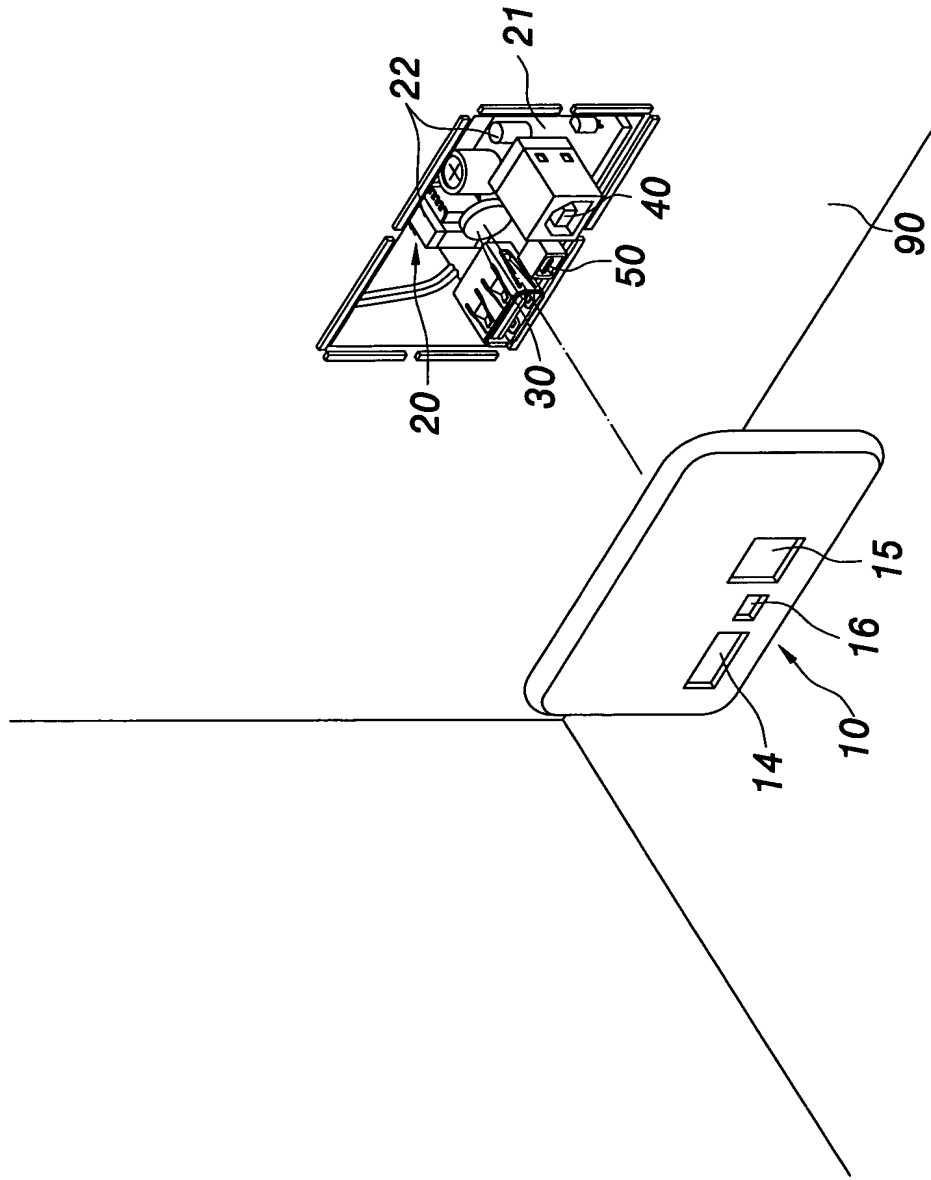


FIG. 8



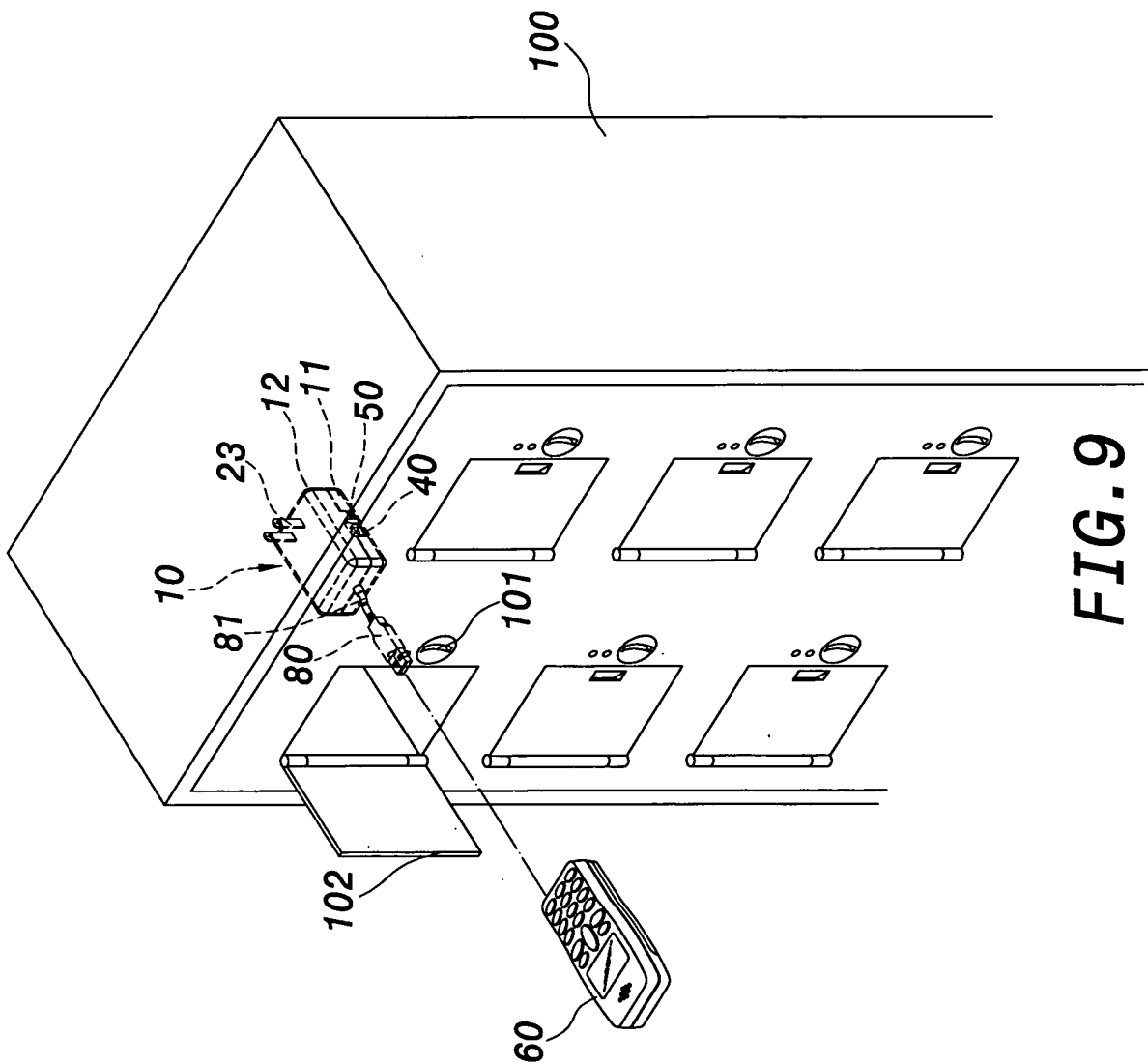


FIG. 9

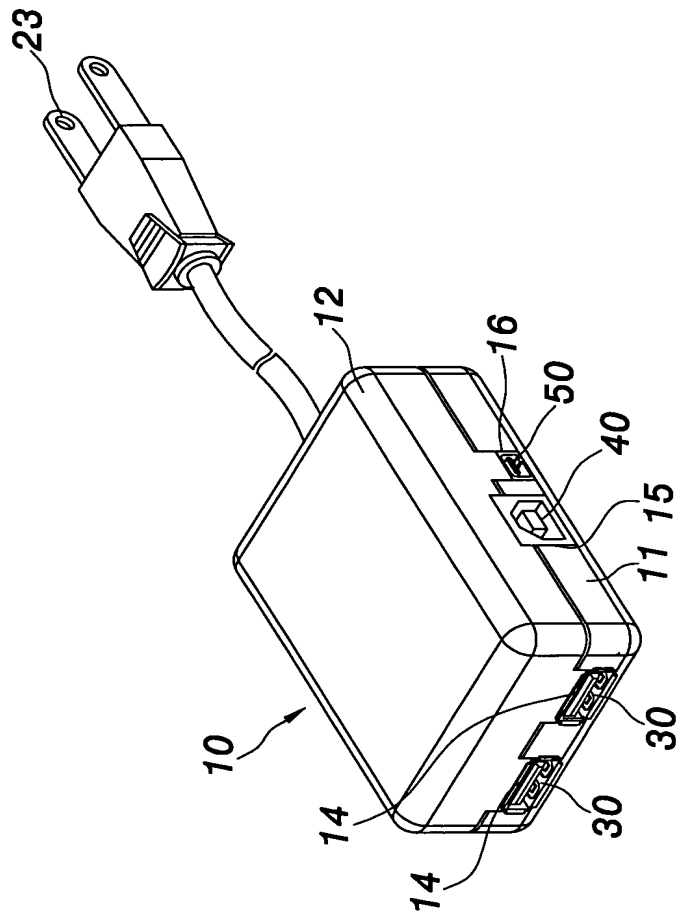


FIG. 10